

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES

the specification of which (check one)

- () is attached hereto.
 (X) was filed by an authorized person on my behalf on
April 10, 1997 as Application Serial No. 08/835,682.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate listed below and so identified, or §365(a) of any PCT international application that designated at least one country other than the United States of America, listed below, and I have also identified below any foreign application for patent or inventor's certificate or PCT international application on this invention filed by us or our legal representatives or assigns and having a filing date before that of the application on which priority is claimed.

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>Priority Claimed (Yes or No)</u>
N/A			

I hereby claim benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

<u>Application Serial No.</u>	<u>Filing Date</u>
N/A	

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
08/695,191	08/07/96	Pending
08/682,080	07/15/96	Pending
08/629,822	04/10/96	Pending

<u>PCT Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
N/A		

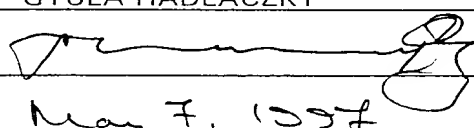
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to Stephanie Seidman, BROWN, MARTIN, HALLER & McCLAIN, 1660 Union Street, San Diego, California 92101-2926:

<u>Attorney</u>	<u>Reg. No.</u>
Stephanie Seidman	33,779
Carl Brown	18,587
Neil R. Martin	23,088
John L. Haller	27,795
James W. McClain	24,536
Paula K. Schoeneck	39,362

Address for correspondence: Stephanie Seidman
BROWN, MARTIN, HALLER & McCLAIN
1660 Union Street
San Diego, CA 92101-2926

Full name joint inventor: GYULA HADLACZKY

Inventor's signature: 

Date: May 7, 1997

Residence: HUNGARY

Post Office Address: H. 6723, SZEGED
SZAMOS U.1.A. IX. 36.
HUNGARY

Citizenship: HUNGARIAN

Full name of joint inventor:

ALADAR A. SZALAY

Inventor's signature:

A. A. Szalay

Date:

May 8th

1997

Residence:

HIGHLAND, CALIFORNIA

Post Office Address:

7327 FAIRWOOD

HIGHLAND, CALIFORNIA 92346

Citizenship:

UNITED STATES OF AMERICA AND

CANADA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HADLACZKY et al.
Serial No.: 08/835,682 Group Art Unit: 1804
Filed: April 10, 1997 Examiner: Unassigned
For: ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHORMOSOMES

POWER OF ATTORNEY BY ASSIGNEE

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Revoking any and all powers of attorney and authorizations of agent heretofore made in respect to this application, an Assignee of the above-captioned patent application hereby appoints the following as its attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

STEPHANIE SEIDMAN, Registration No. 33,779; PAULA K. SCHOENECK, Registration No. 39,362; and BARRY S. WILSON, Registration No. 39,431. Direct all telephonic inquiries to Stephanie Seidman at telephone no. (619) 450-8400.

Address all correspondence to:

Stephanie L. Seidman
Heller Ehrman White & McAuliffe
4250 Executive Square, 7th Floor
La Jolla, California 92037-9103
Telephone No. (619) 450-8400.

THE BIOLOGICAL RESEARCH CENTER OF THE
HUNGARIAN ACADEMY OF SCIENCES

Date: 7.09.98

By: [Signature]

Name: RASKO ISTVAN MD, PhD
Title: ASS. GENERAL DIRECTOR

By: [Signature]

Name: Vályi László Ph.D.
Title: Financial Director



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HADLACZKY et al.
Serial No.: 08/835,682 Group Art Unit: 1804
Filed: April 10, 1997 Examiner: Unassigned
For: ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHORMOSOMES

CERTIFICATE UNDER 37 C.F.R. §3.73(b)

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

THE BIOLOGICAL RESEARCH CENTER OF THE HUNGARIAN ACADEMY OF SCIENCES, organized under the laws of Hungary with its principal place of business at H-6701 Szeged, P.O.B. 521, Hungary, is an Assignee in the above-captioned patent application by virtue of an assignment from inventor Hadlaczký. The Assignment from the inventor was recorded in the U.S. Patent and Trademark Office at Reel 8618, Frame 0716.


The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THE BIOLOGICAL RESEARCH CENTER OF THE HUNGARIAN
ACADEMY OF SCIENCES

Date: 31.09.98

By:


Name: ISTVÁN BAKÓ MD, PhD
Title: ASS. GENERAL DIRECTOR

Form PTO-1595

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

AMERICAN GENE THERAPY, INC.

2. Name and address of receiving Party(ies)

CHROMOS MOLECULAR SYSTEMS, INC.
6660 NW Marine Drive
Vancouver, BC V6T 1Z4
Canada

Additional name(s) of conveying party(ies) attached? Yes X No

Additional name(s) & address(es) attached? Yes X No

3. Nature of conveyance:

X Assignment Merger
 Security Agreement Change of name
 Other

Execution Date: 3/17/98

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):
08/835,682

B. Patent No.(s)

Additional numbers attached? Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Stephanie L. Seidman
BROWN, MARTIN, HALLER & McCLAIN
1660 Union Street
San Diego, CA 92101

6. Total number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
X Enclosed
X Authorized to charge any underpayment to deposit account

8. Deposit account Number: 02-4070

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stephanie L. Seidman
Name of Person Signing
Registration No. 33,779

[Signature] Signature

March 26, 1998
Date

Total number of pages including cover sheet, attachments, and document: 4

A S S I G N M E N T

American Gene Therapy, Inc., a corporation organized under the laws of the Province of Alberta, Canada, located at 5022 154th Street, Edmonton, Canada T6H5P3 (hereinafter Assignor), for good and valuable consideration, has assigned and does hereby assign to **CHROMOS MOLECULAR SYSTEMS, INC.**, a corporation organized under the laws of the Province of British Columbia, Canada, with its principal place of business at 6660 NW Marine Drive, Vancouver, BC V6T 1Z4, Canada (hereinafter Assignee), its successors, assigns and legal representatives, any right, title and interest that it may possess in and to all subject matter disclosed in the application for Letters Patent of the United States filed on April 10, 1997 as Serial Number 08/835,682 and entitled:

**ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHROMOSOMES**

and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

Assignor agrees to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

DATE: March 17/98

A. A. Szalay
ALADAR SZALAY
Director

WITNESSED:

DATE: 3-17-98

Loni Harwig
[SIGNATURE OF WITNESS]

Loni Harwig
[PRINTED NAME OF WITNESS]

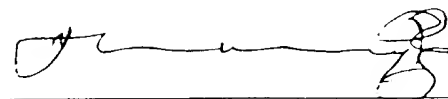
WITNESSED:

DATE: March 23, 1998

Georgy Bagi
[SIGNATURE OF WITNESS]

GYORGY BAGI
[PRINTED NAME OF WITNESS]

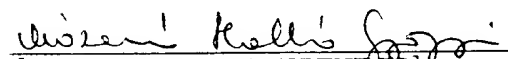
DATE: 28/02/98



GYULA HADLACZKY
Director

WITNESSED:

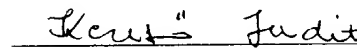
DATE: 09/03/98


[SIGNATURE OF WITNESS]

MÓZESNÉ HOLLÓ GYÖNGYI
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: 09/03/98


[SIGNATURE OF WITNESS]

KERESŐ JUDIT
[PRINTED NAME OF WITNESS]

Form PTO-1595

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

SZALAY, Aladar

2. Name and address of receiving Party(ies)

AMERICAN GENE THERAPY, INC.
5022 154th Street
Edmonton, CANADA T6H5P3

Additional name(s) of conveying
party(ies) attached? ___ Yes X No

Additional name(s) & address(es)
attached? ___ Yes X No

3. Nature of conveyance:

X Assignment ___ Merger
___ Security Agreement ___ Change of name
___ Other _____

Execution Date: 3/28/97

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):
08/835,682

B. Patent No.(s)

Additional numbers attached? ___ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Stephanie L. Seidman
BROWN, MARTIN, HALLER & MCCLAIN
1660 Union Street
San Diego, CA 92101

6. Total number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
X Enclosed
X Authorized to charge any
underpayment to deposit account

8. Deposit account Number: 02-4070

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stephanie L. Seidman
Name of Person Signing
Registration No. 33,779

[Signature]
Signature

June 25, 1997
Date

Total number of pages including cover sheet, attachments, and document: 3

A S S I G N M E N T

WHEREAS, I, ALADAR SZALAY, a citizen of the United States of America and of Canada, residing at 7327 Fairwood, Highland, California 92346, U.S.A., for good and valuable consideration, have assigned and do hereby assign to **AMERICAN GENE THERAPY, INC.**, organized under the laws of the Province of Alberta, Canada, located 5022 154th Street, Edmonton, Canada T6H5P3 (hereinafter Assignee) its successors, assigns and legal representatives, any right, title and interest that I may possess in and to all subject matter invented by me and disclosed in the application for Letters Patent of the United States entitled:

**ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHROMOSOMES**

and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

DATE: March 28/97

A. A. Szalay
ALADAR SZALAY

WITNESSED:

DATE: March 28/97

Eileen Litterson
[SIGNATURE OF WITNESS]

EILEEN LITTERSON
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: March 26/97

Anton Duncanson
[SIGNATURE OF WITNESS]

Anton Duncanson
[PRINTED NAME OF WITNESS]

Form PTO-1595

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

SZALAY, Aladar

2. Name and address of receiving Party(ies)

LOMA LINDA UNIVERSITY
Loma Linda, California 92350

Additional name(s) of conveying party(ies) attached? ___ Yes X No

Additional name(s) & address(es) attached? ___ Yes X No

3. Nature of conveyance:

X Assignment ___ Merger
___ Security Agreement ___ Change of name
___ Other _____

Execution Date: 3/28/97

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):
08/835,682

B. Patent No.(s)

Additional numbers attached? ___ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Stephanie L. Seidman
BROWN, MARTIN, HALLER & McCLAIN
1660 Union Street
San Diego, CA 92101

6. Total number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
X Enclosed
X Authorized to charge any underpayment to deposit account

8. Deposit account Number: 02-4070

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stephanie L. Seidman
Name of Person Signing
Registration No. 33,779

[Signature]
Signature

June 25, 1997
Date

Total number of pages including cover sheet, attachments, and document: 3

A S S I G N M E N T

WHEREAS, I, ALADAR SZALAY, a citizen of the United States of America and of Canada, residing at 7327 Fairwood, Highland, California 92346, U.S.A., for good and valuable consideration, have assigned and do hereby assign to **LOMA LINDA UNIVERSITY**, a non-profit organization organized under the laws of the State of California, located in Loma Linda, California 92350, U.S.A. (hereinafter Assignee) its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by me and for which I am under an obligation to assign such right, title and interest to Assignee and which is disclosed in the application for Letters Patent of the United States entitled:

**ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR
PREPARING ARTIFICIAL CHROMOSOMES**

and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

DATE: March 28/97

A. S. Szalay
ALADAR SZALAY

WITNESSED:

DATE: March 28/97

Eileen Utterson
[SIGNATURE OF WITNESS]

EILEEN UTTERSON
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: Mar 28/97

Alison Duncan
[SIGNATURE OF WITNESS]

ALISTAIR DUNCAN
[PRINTED NAME OF WITNESS]

Form PTO-1595

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies): HADLACZKY, Gyula	2. Name and address of receiving Party(ies) THE BIOLOGICAL RESEARCH CENTER OF THE HUNGARIAN ACADEMY OF SCIENCES H-6701 Szeged, P.O.B. 521 Hungary
Additional name(s) of conveying party(ies) attached? ___ Yes <u>X</u> No	Additional name(s) & address(es) attached? ___ Yes <u>X</u> No

3. Nature of conveyance:

X Assignment ___ Merger
___ Security Agreement ___ Change of name
___ Other _____

Execution Date: 4/4/97

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:A. Patent Application No.(s):
08/835,682

B. Patent No.(s)

Additional numbers attached? ___ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed: Stephanie L. Seidman BROWN, MARTIN, HALLER & McCLAIN 1660 Union Street San Diego, CA 92101	6. Total number of Applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <u>X</u> Enclosed <u>X</u> Authorized to charge any underpayment to deposit account 8. Deposit account Number: <u>02-4070</u>
--	---

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Stephanie L. Seidman
Name of Person Signing
Registration No. 33,779

Signature

June 25, 1997
Date

Total number of pages including cover sheet, attachments, and document: 3

A S S I G N M E N T

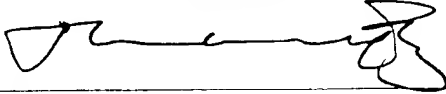
WHEREAS, I, GYULA HADLACZKY, a citizen of Hungary, residing at H.6723, Szeged, Szamos U.1.A. IX. 36., Hungary, for good and valuable consideration, have assigned and do hereby assign to **THE BIOLOGICAL RESEARCH CENTER OF THE HUNGARIAN ACADEMY OF SCIENCES**, a non-profit organization organized under the laws of Hungary, located in H-6701 Szeged, P.O.B. 521, Hungary, (hereinafter Assignee) its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by me and disclosed in the application for Letters Patent of the United States entitled:

ARTIFICIAL CHROMOSOMES, USES THEREOF AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES

and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

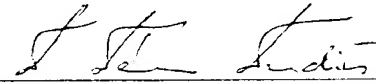
I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

DATE: Apr. 4. 1997


GYULA HADLACZKY

WITNESSED:

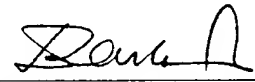
DATE: Apr. 4 1997


[SIGNATURE OF WITNESS]

Dr Dénes Dudits
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: 4th Apr. 1997


[SIGNATURE OF WITNESS]

Dr Istvan RASKO
[PRINTED NAME OF WITNESS]